

**In the claims:**

1. (Currently Amended) An internal combustion engine comprising:

- a body;
- a shaft rotatably mounted within said body;
- a pair of pistons within said body, said pair of pistons attached to and extending from said shaft; and
- a combustion chamber formed in said shaft; ~~and~~
- ~~a bearing attached to each piston by a pin~~
- said piston faces having a depression to create
- a vortex.

2. (Previously presented) The internal combustion engine of claim 1, wherein

- said body has a centerline; and
- said shaft extending along said body centerline.

3. (Previously presented) The internal combustion engine of claim 1, further comprising:

- a pair of cylinders;
- said pair of pistons reciprocating within said pair of cylinders; and
- a secondary combustion chamber formed between said pair of cylinders.

4. (Previously presented) The internal combustion engine of claim 1, further comprising:

- an ellipsoid guide in said body; and
- said pair of pistons retained in said ellipsoid guide.

5. (Previously presented) An internal combustion engine comprising:

- a body, said body having an inner surface and an outer surface;

- a shaft rotatably mounted in said body;

- an intake port and an exhaust port formed in said body;

- a combustion chamber formed in said shaft, said combustion chamber having a bottom, a left edge and a right edge; and

- a bridge extending upwardly from said combustion bottom wall to said body inner surface.

6. Cancelled

7. (Original) The internal combustion engine of claim 5, further comprising:

- a sleeve positioned between said shaft and said body.

8. (Original) The internal combustion engine of claim 7 further comprising:

- an O-ring between said sleeve and said shaft.

9. (Previously presented) An internal combustion engine comprising:

- a body having an axis;

- a shaft rotatably mounted within said body;

- a pair of pistons within said body, said pair of pistons attached to and extending from said shaft;

- a pair of cylinders;

- said pair of pistons reciprocating within said pair of cylinders;

- a pin extending from each said cylinder;

a bracket extending radially outwardly from each piston and engaging said pin,

a compression spring surrounding said pin and bearing against said bracket; and

a combustion chamber formed in said shaft.

10. (Previously presented) The internal combustion engine of claim 9, wherein

said body has a centerline; and

said shaft extending along said body centerline.

11. (Previously presented) The internal combustion engine of claim 9, further comprising:

a secondary combustion chamber formed between said pair of cylinders.

12. (Previously presented) The internal combustion engine of claim 9, further comprising:

an ellipsoid guide in said body; and

said pair of pistons retained in said ellipsoid guide.

13. (New) The internal combustion engine of claim 1, further comprising:

a baffle on the piston face to direct exhaust gases to an exhaust outlet.